

GeometryQuiz06: Coordinate Geometry

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Question 1

Find the distance between the points (3, 4) and (7, 1).

Question 2

Determine the midpoint of the line segment joining points (2, 3) and (6, 5).

Question 3

Find the slope of the line passing through the points $(-1, 2)$ and $(3, -4)$.

Question 4

Calculate the area of the triangle formed by the points (1, 2), (4, 6), and (3, 8).

Question 5

Determine the equation of a line passing through the point $(2, -3)$ with a slope of 4.

Question 6

Find the coordinates of the point which divides the line segment joining (1, 1) and (4, 5) in the ratio 2:3.

Question 7

If the distance between the points $(x, 3)$ and $(4, -1)$ is 5 units, find the value of x .

Question 8

Determine the slope of a line perpendicular to the line passing through points $(-2, 1)$ and $(3, 4)$.

Question 9

Find the equation of the line parallel to $y = 3x + 1$ that passes through the point $(-1, 2)$.

Question 10

Calculate the length of the line segment joining the points $(5, 0)$ and $(0, 12)$.